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| (30) Priority: | 19.07.8819.10.88 JPJP 3631781236313553 | (71) Applicant: OLYMPUS OPTICAL C |
| (43) Date of application publication: | 27.07.90 | (72) Inventor: ECHIZENYA TAKAHIR MISONO KAZUHIRO ABE TADASHI KAMI KUNIAKI |
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**(54) ULTRASONIC
DIAGNOSTIC APPARATUS**

(57) Abstract:

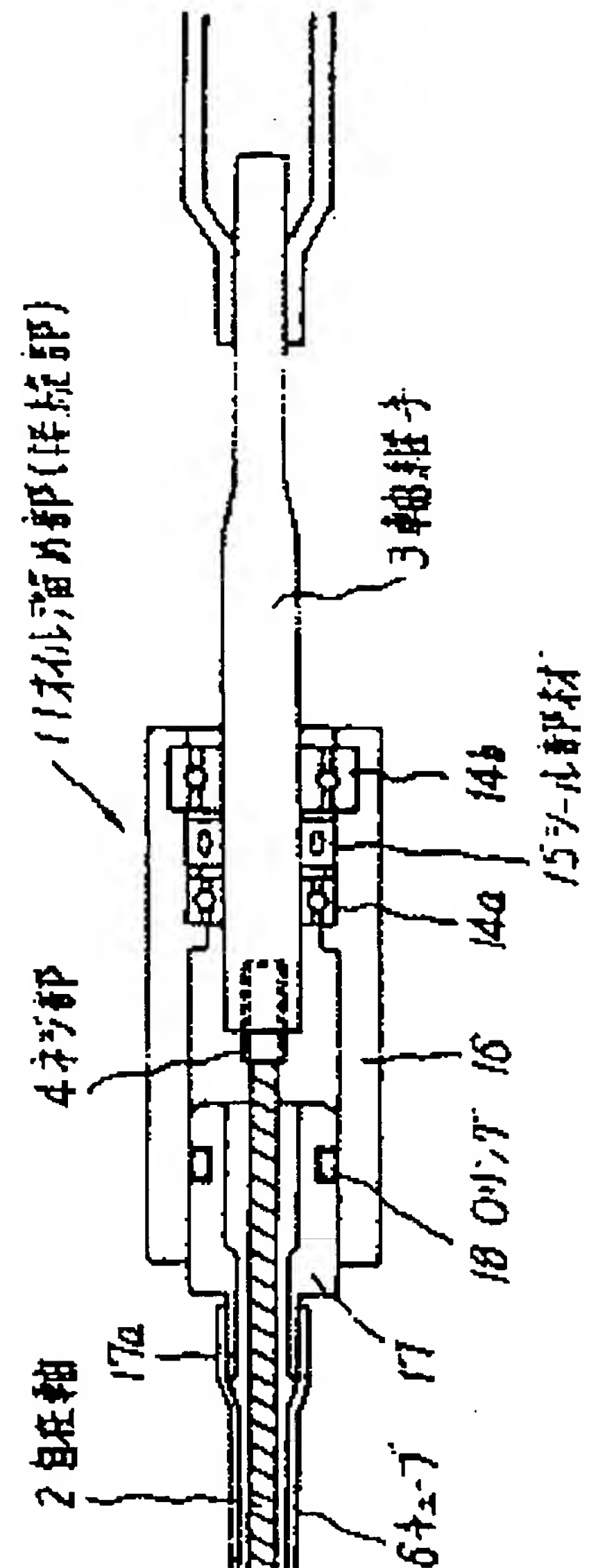
PURPOSE: To reduce the diameter of an insertion part, to facilitate the assembling and repairing of an ultrasonic diagnostic apparatus and to wash and disinfect only the insertion part by freely detaching and mounting a drive part and an ultrasonic probe through a connection stand and a connection cylinder.

CONSTITUTION: An oil sump part 11 as a connection part 11 holds a shaft coupling 3 by bearings 14a, 14b and becomes liquidtight by a seal member 15 (burr seal, quad.-ring, O-ring). A universal shaft 2 is drawn in the oil sump part 11 so as to be connected to the shaft coupling 3 through a cap 17 by a screw part 4 and a tube 6 is connected to a housing 15 through the protruding part 17a of the cap 17 having an O-ring 18 being a liquidtight means. Therefore, an ultrasonic diagnostic apparatus is

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assembled according to procedure such that an ultrasonic vibrator is connected to the universal shaft 2 at first to be inserted into the tube 6 connected to the cap 7 from the leading end thereof and the shaft coupling 3 is subsequently fixed to the universal shaft 2 to be inserted into the housing 16 equipped with the bearings 14a, 14b and the seal member 15 and connect to a power part. Work detaching the universal shaft 2 at the time of repairing can be also simply performed through the screw part 4.

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